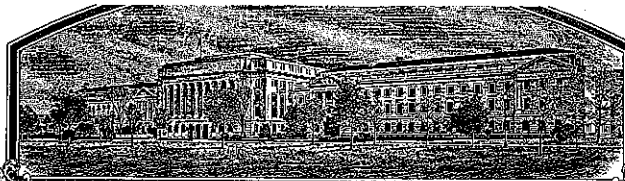


No.

9600189



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Kaneko Seeds Co., Ltd.

Whereas THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Suzunishiki'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this ninth day of April, in the year two thousand two.

Attest

[Signature]

Acting Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]

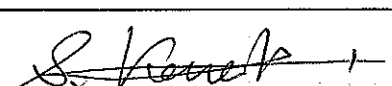
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER KANEKO SEEDS CO., LTD.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME B3		3. VARIETY NAME SUZUNISHIKI	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 50-12, Furuichi-machi, 1-chome Maebashi City, Gunma Pref. 3718503 Japan		5. TELEPHONE (include area code) 81-(27)-251-1611		FOR OFFICIAL USE ONLY PVPO NUMBER 9600189 Suzunishiki FILING DATE 3/19/96	
		6. FAX (include area code) 81-(27)-290-1086			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Stock Company		9. DATE OF INCORPORATION June 1, 1947	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) NAME: Saijuro Kaneko, President ADDRESS: KANEKO SEEDS CO., LTD. 50-12, Furuichi-machi, 1-chome Maebashi City, Gunma Pref. 3718503 Japan					FILING AND EXAMINATION FEES: \$ 2450.00 DATE 3/18/96 CERTIFICATION FEE: \$ 320.00 DATE 10-01-01
11. TELEPHONE (Include area code) 81-(27)-251-1611		12. FAX (Include area code) 81-(27)-290-1086		13. E-MAIL oversea@kanekoseeds.co.jp	
14. CROP KIND (Common Name) Soybean					
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act		
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input type="checkbox"/> Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)			<input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no," go to item 22)		
			20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO		
			IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
			21. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO		
			IF YES, SPECIFY THE NUMBER 1, 2, 3, etc. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
			(If additional explanation is necessary, please use the space indicated on the reverse.)		
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input type="checkbox"/> NO		
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.					
The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.					
Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 			SIGNATURE OF OWNER		
NAME (Please print or type) Saijuro Kaneko			NAME (Please print or type)		
CAPACITY OR TITLE President KANEKO SEEDS CO., LTD.		DATE		CAPACITY OR TITLE	
				DATE	

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. **Retain one copy for your files.** All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvp.htm>

ITEM

- 18a. Give:
 - (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
 - (2) the details of subsequent stages of selection and multiplication;
 - (3) evidence of uniformity and stability; and
 - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

The date of first sales: May 31, 1996, in Japan.

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

Registered under the seeds and seedlings law in Japan dated December 5, 1997

Registration Number: 5857

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (2-99) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (6-98) which is obsolete.

Exhibit A. Origin and Breeding History

Experimental number: B3

Variety name: SUZUNISHIKI

1988 summer-autumn.

TAKANO FOODS CO., LTD. found two types of off-type from the production field of "JIZUKA" in Ibaraki Prefecture. They were named "A" and "B" temporarily. Though "JIZUKA" did flowers of "purple". "A" and "B" had flowers of "white" color. Because "A" and "B" have rather late-mature character and larger plant length, and more pods than the average plants of "JIZUKA", they were thought as more productive. "A" and "B" were looked upon as mutants from "JISUKA". And their seeds were harvested from the plants, respectively in autumn, 1988.

Description :

Soybean "JIZUKA" is old local variety cultivated in Ibaraki prefecture.

Registration of the variety is not taken part under the Seeds and Seedlings Law in Japan, and it is cultivated as materials for "Natto" in general. The main characteristics contain the small-sized seeds, late-maturing, and its purple flowers. But, some of mutational plants appear in the fields because its characteristics are rather variable. Since it is generally preferred that the size of soybean seeds is smaller as materials for Natto, "JIZUKA" yielding small seeds was cultivated widely, however, that is rarely done. In 1978, "NATTO SHORYU" was bred from the above "JIZUKA" parent material by Ibaraki agricultural experiment station with the use of pure line selection method. "NATTO SHORYU" inherits the characteristics of "JIZUKA" concerning the flower color, flowering period, seed size and color and hilum color, etc. But no mutational plant appeared in the field and the characteristics of "NATTO SHORYU" is stable.

Today, "NATTO SHORYU" is widely cultivated in exchange of "JIZUKA". And also registration of this is not taken part under the Seeds and Seedlings Law in Japan.

1988-1992

The above "A" and "B" are hold in the cold-stockroom of TAKANO FOODS CO., LTD as genetic resources.

1992 spring-summer

KANEKO SEEDS CO., LTD. took the above "A" and "B" over from TAKANO FOODS

CO., LTD. and started to culture and breed. "A" and "B" were S1 generation at that time because they already had been selected one time.

And each 52 plants were cultivated in the field of Kunisada breeding station owned by KANEKO SEEDS CO., LTD.. Some of "A" and "B" were selected in the field by the following standard. Since 8 plants of "B" cleared its basis, they were selected after being investigated their yields, etc, and named as "B1" to "B8", respectively.

The basis of selection:

Falling less easily than the "NATTO SHORYU".

Not growing in vine shape.

Strong to Stem plague.

Bearing the pods more abundantly.

Small and uniform seeds.

Yielding seeds more abundantly.

1993 spring-summer

Each 52 plants of "B1", "B2" and "B3" that had yielded more abundantly in S2 generation, "B1" to "B8", were cultivated. Thereafter, the selection was on the basis of the cultivation in 1992. As a result, each 30 plants of "B2" and "B3" were selected in the field. Usually, the character of mutant in Soybean is known as being fixed easily. Off-type having different character in flower color etc. were not observed in "B2" and "B3", respectively.

1993 winter

As a result of making Natto from "B2" and "B3", it was considered "B3" as the more appropriate materials for making Natto.

1994 summer

104 plants of S3 generation from "B3" were cultivated. The mutational plants having characters in flower color etc. were not observed. 4 off-type having larger plant length and tending to fall easily were removed in the field. The seeds were harvested from the other 100 plants.

1994 winter

As a result of the quality test for the material of Natto regarding "B3", it was

reconfirmed as appropriate.

1995 summer

Seed multiplication of "B3" was done. 130 plants of S4 generation of "B3" were cultivated. The mutational plants having the different character in flower color etc. were not observed in the field. 3 off-type having larger plant length and tending to fall easily were removed in the field. The seeds were harvested from the other 127 plants and named as "SUZUNISHIKI".

Attested stability

In 1994, 104 plants were cultivated, and a mutational plant having a different character in flower color etc. were not observed in the field.

In 1995, 130 plants were cultivated, and a mutational plant having a different character in flower color etc. were not observed in the field.

In the observation of the field in two years, a mutational plant regarding qualitative character was not observed, and the characters are stable genetically.

Off-type plants that are large plant length and tend to fall easily emerged by a ratio of 4/104, that is 3.8%, among the off-type having the same as its qualitative characters in the field in 1994. And in 1995, they emerged by a ratio of 3/103, that is 2.3%. these emergence rate is within the maximum permissible level of commercial varieties.

Kinds of variants

In the cultivation period between 1993 to 1995, no variants were observed regarding the qualitative characters. And plants that are large plant length and tend to fall easily have possibilities to emerge by a ratio of 2 to 4% at their cultivation.

In 2000, the plants of this type emerged by a ratio of 100/15000, that is 0.67% in Japan.

SUZUNISHIKI

Exhibit B Statement of Distinctness

'Variety SUZUNISHIKI' is most similar to 'Variety NATTO-SYORYU'; however 'Variety SUZUNISHIKI' has a white flower color, whereas 'variety NATTO-SYORYU' has a purple flower color.

'Variety SUZUNISHIKI' is most similar to 'Variety NATTO-SYORYU'; however Variety SUZUNISHIKI' has a green hypocotyl color, whereas 'variety NATTO-SYOIRYU' has a purple.

UNITED STATES DEPARTMENT OF AGRICULTURE, AGRICULTURAL MARKETING SERVICE, SCIENCE DIVISION
PLANT VARIETY PROTECTION OFFICE
10301 BALTIMORE BLVD., RM. 500, NATIONAL AGRICULTURAL LIBRARY BUILDING
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF SOYBEAN VARIETY
(PVP APPLICATION EXHIBIT "C")
Glycine max (L.) Merr.

Name of Applicant: KANEKO SEEDS CO., LTD.		Variety Name: SUZUNISHIKI Experimental Name (if applicable): (very important if one has ever been used): B3		
Address (Street and No., City, State, Zip Code): 50-12, Furuichi-machi 1 Chome Maebashi City Gunma Pref. 371 Japan		PLEASE DO NOT WRITE IN THIS SPACE FOR PVP OFFICE USE ONLY PVP NUMBER: _____		
For each characteristic, please place the number of the character state that best represents your variety in the corresponding box. If you feel the best choice is not listed, write in what you believe to be the most accurate description.				
1. [SSHP]:SEED SHAPE <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">1</div>	1=[SPHR] spherical: (L/W, L/T, and T/W ratios = < 1.2)	2=[SPHF] spherical-flattened: (L/W ratio > 1.2; L/T ratio < 1.2)	3=[ELON] elongate: (L/T ratio > 1.2; T/W < 1.2)	4=[ELFL] elongate-flattened: (L/T ratio > 1.2; T/W > 1.2)
2. [SCL]:SEED COAT COLOR: <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">1</div> 1=[YEL]yellow 2=[GRN]green 3=[BRN]brown 4=[BLK]black </div> <div style="display: flex; justify-content: space-between;"> 5=[OTH]other (please specify) _____ </div>				
3. [LU]:SEED COAT LUSTER <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">1</div> 1=[DL]dull 2=[SH]shiny </div>				
4. [SSZ]:SEED SIZE: <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">0</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">9</div> grams/100 seeds				
5. [HCL]:HILUM COLOR: <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">2</div> 1=[BUF]buff 2=[YEL]yellow 3=[BRN]brown 4=[GRY]gray 5=[IBL]imperfect black </div> <div style="display: flex; justify-content: space-between;"> 6=[BLA]black 7=[OTH]Other (please specify) _____ </div>				
6. [CCL]:COTYLEDON COLOR <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">1</div> 1=[YEL]yellow 2=[GRN]green </div>				
7. [PA]:SEED PROTEIN PEROXIDASE ACTIVITY <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">2</div> 1=[LO]low 2=[HI]high </div>				
8. [P]:SEED PROTEIN ELECTROPHORETIC BAND <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">2</div> 1=[A]Type A 2=[B]Type B </div>				
9. [HC]:HYPOCOTYL COLOR <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">1</div>	1=[GRN]green ('Eva's'; 'Davis')	2=[GB]green with bronze band below cotyledons ('Woodworth'; 'Tracy')	3=[LPR]light purple below cotyledons ('Beeson'; 'Pickett 71')	4=[DPR]dark purple extending to unifoliolate leaves ('Hodgson'; 'Coker Hampton 266A')
10. [SP]:LEAFLET SHAPE <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">3</div> 1=[LN]lanceolate 2=[OL]oval 3=[OV]ovate 4=[OTH]other (specify) e.g., [CB]=oblong [EP]=elliptical _____ </div>				

11. [FCL]: FLOWER COLOR

☒ 1= [WHI] white 2= [PUR] purple 3= [WPT] white w/purple throat

12. [PCL]: POD COLOR

☒ 1= [TAN] tan 2= [BRN] brown 3= [BLA] black

13. [PBC]: PLANT PUBESCENCE COLOR

☒ 1= [GRY] gray 2= [BRN] brown 3= [TWN] tawny 4= [LTN] light tawny

14. [PHB]: PLANT HABIT

☒ 1= [DET] determinate ('Gnome'; 'Braxton') 2= [SDT] semi-determinate ('Will')
 3= [IND] indeterminate ('Nebsoy'; 'Improved Pelican') 4= [INT] intermediate

15. [MAT]: MATURITY GROUP

☒ 9 1=000 2=00 3=0 4=I 5=II 6=III 7=IV 8=V 9=VI 10=VII 11=VIII 12=IX 13=X

16. [MATS]: MATURITY SUBGROUP (early) 1 2 3 4 5 6 7 8 9 (late)

☒ 5

17. DISEASE REACTION

(Enter 0=not tested; 1=susceptible; 2=resistant; 3=tolerant)

B A C T E R I A L D I S E A S E S

☒ [BCPS]: Bacterial Pustule (*Xanthomonas campestris* pv. *glycines* (Nakano) Dye)

☒ [BCBL]: Bacterial Blight (*Pseudomonas syringae* pv. *glycinea* (Coerper) Young, Dye, & Wilkie)

☒ [WDFR]: Wildfire Blight (*Pseudomonas syringae* pv. *tabaci* (Wolf & Foster) Young, Dye, & Wilkie)

F U N G A L D I S E A S E S

☒ [BRSP]: Brown Spot (*Septoria glycines*)

☐ [FGFY]: Frogeye Leafspot (*Cercospora sojina*)

☒ [FG01] race1 ☒ [FG02] race2 ☒ [FG03] race3 ☒ [FG04] race4 ☒ [FG05] race5 ☒ [FG06] race6

☒ [FG00]: other (please specify _____)

☒ [TRSP]: Target Spot (*Corynespora cassiicola*)

☒ [DYML]: Downey Mildew (*Peronospora trifoliorum* var. *manchurica*)

☒ [PWML]: Powdery Mildew (*Microsphaera diffusa*)

☒ [BRSR]: Brown Stem Rot (*Cephalosporium gregatum*)

☒ [STCR]: Stem Canker (*Diaporthe phaseolorum* var. *caulivora*)

☒ [PSBL]: Pod and Stem Blight (*Diaporthe phaseolorum* var. *sojae*)

☒ [PRST]: Purple Seed Stain (*Cercospora kikuchii*)

(Enter 0=not tested; 1=susceptible; 2=resistant; 3=tolerant)

☐ [RZRT]:Rhizoctonia Root Rot (*Rhizoctonia solani*).

☐ [PYPH]:Phytophthora Root Rot (*Phytophthora megasperma* Drechs. f. sp. *glycinea*)

☐ [PY01]:race 1 ☐ [PY02]:race 2 ☐ [PY03]:race 3 ☐ [PY04]:race 4 ☐ [PY05]:race 5

☐ [PY06]:race 6 ☐ [PY07]:race 7 ☐ [PY08]:race 8 ☐ [PY09]:race 9 ☐ [PY10]:race 10

☐ [PY11]:race 11 ☐ [PY12]:race 12 ☐ [PY13]:race 13 ☐ [PY14]:race 14 ☐ [PY15]:race 15

☐ [PY16]:race 16 ☐ [PY17]:race 17 ☐ [PY18]:race 18 ☐ [PY19]:race 19 ☐ [PY20]:race 20

☐ [PY21]:race 21 ☐ [PY22]:race 22 ☐ [PY23]:race 23 ☐ [PY24]:race 24 ☐ [PY25]:race 25

☐ [PY26]:race 26 ☐ [OTHD]:other (please specify) _____

VIRAL DISEASES

☐ [BDBL]:Bud Blight (Tobacco Ringspot Virus)

☐ [BYMO]:Yellow Mosaic (Bean Yellow Mosaic Virus)

☐ [CWCV]:Cowpea Mosaic (Cowpea Chlorotic Virus)

☐ [PDML]:Pod Mottle (Bean Pod Mottle Virus)

☐ [SDMT]:Seed Mottle (Soybean Mosaic Virus)

NEMATODES

[SYCY]:Soybean Cyst Nematode (*Heterodera glycines*)

☐ [SY01]:race 1 ☐ [SY02]:race 2 ☐ [SY03]:race 3 ☐ [SY05]:race 5

☐ [SY06]:race 6 ☐ [SY09]:race 9 ☐ [SY14]:race 14 (formerly race 4)

☐ [SY00]:other race (specify) _____

☐ [LANC]:Lance Nematode (*Hoplolaimus columbus*)

☐ [RTKN]:Southern Root Knot Nematode (*Meloidogyne incognita*)

☐ [NTKN]:Northern Root Knot Nematode (*Meloidogyne hapla*)

☐ [PTKN]:Peanut Root Knot Nematode (*Meloidogyne arenaria*)

☐ [RENM]:Reniform Nematode (*Rotylenchus reniformus*) ☐ [OTHD]:other (specify) _____

20. PHYSIOLOGICAL RESPONSES:

(Enter 0=not tested; 1=susceptible; 2=resistant; 3=tolerant)

☐ [CHLO]: Iron Chlorosis on
Calcareous Soil

☐ other (please specify _____)

INSECTS

21. INSECT REACTIONS:

(Enter 0=not tested; 1=susceptible; 2=resistant; 3=tolerant)

☐ [MXBB]: Mexican Bean Beetle
(*Epilachna varivestis*)

☐ [POTH]: Potato Leaf Hopper (*Empoasca abae*)

☐ [OTHI]: other (please specify _____)

HERBICIDES

22. HERBICIDE RESISTANCE:

(Enter 0=not tested; 1=susceptible; 2=resistant; 3=tolerant)

☐ [MEZN]: Metribuzin

☐ [SULF]: Sulfonylurea

☐ [RNDP]: Roundup

☐ [OTHH]: other (please specify _____)

ADDITIONAL INFORMATION

Please add any additional information characteristic of your variety that you feel is pertinent. This information may be continued on additional pages and/or in the exhibit D.



NO. Fig. 1

"suzunishiki"
plant type

'94. 8. 19

seeding day

'94. 6. 14



NO. Fig. 2

"kosuzu" plant
type

'94. 8. 19

seeding day

'94. 6. 14



NO. Fig. 3

"Harts 507" plant
type

'94. 8. 19

seeding day

'94. 6. 14

Fig. 4

"Harts 92" plant
type

'94. 8. 19

seeding day

'94. 6. 14



Fig. 5

"suzunishiki"
leaflet

'95. 8. 24

seeding day

'95. 6. 12



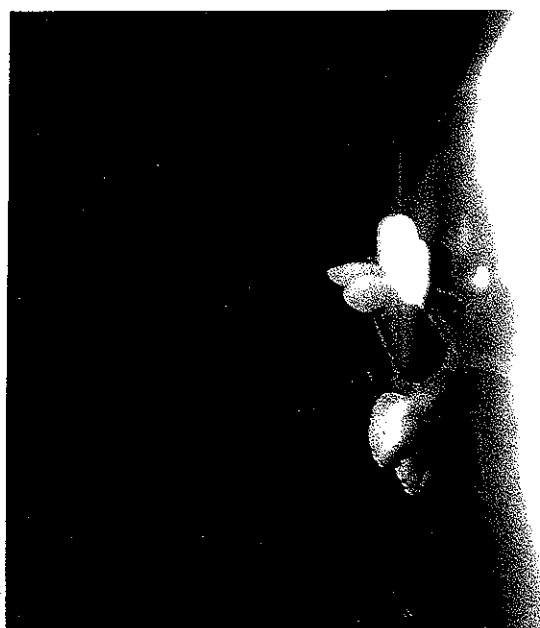
Fig. 6

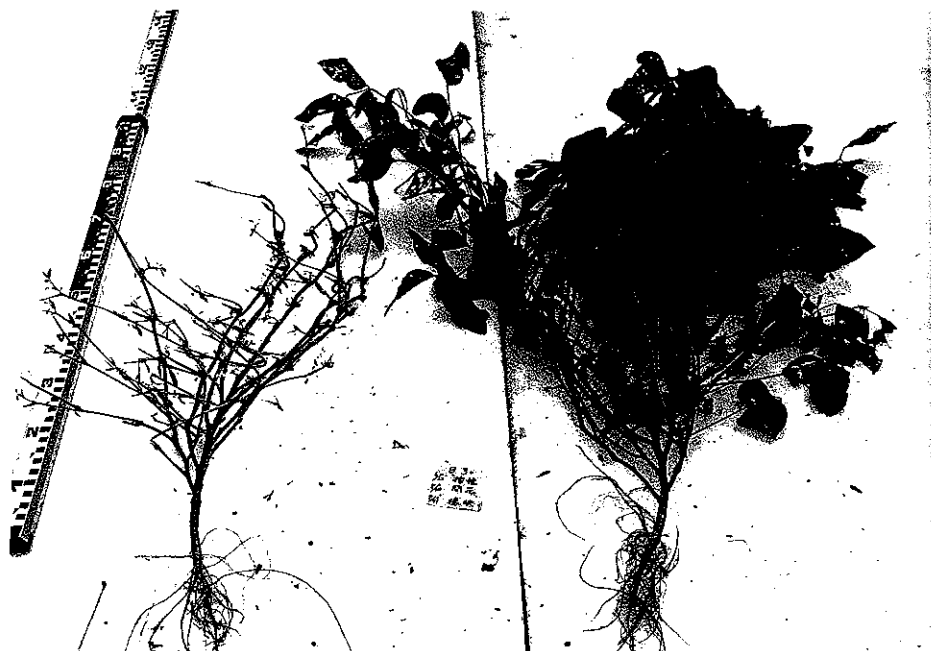
"suzunishiki"
flower

'95. 8. 24

seeding day

'95. 6. 12





NO. Fig. 7

'Suzunishiki'

plant type

'95. 8. 31

memo. in this fig.

seeding day 6/12

flowering day 8/5

photographing day 8/31



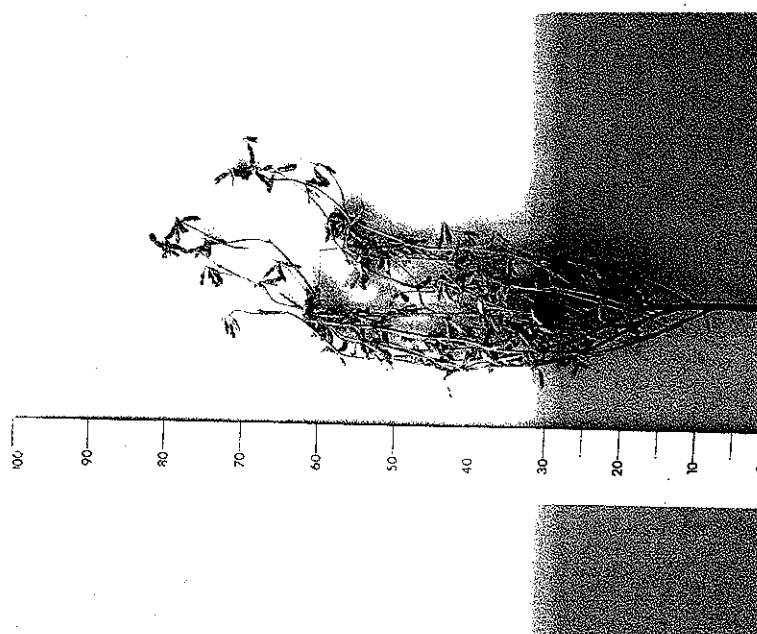
NO. Fig. 8

'Suzunishiki' is
low sensibility
to Phytophthora
Rot. (the right side)

'94. 10. 11

seeding day

'94. 6. 14



NO. Fig. 9

'Suzunishiki'

plant type

(maturing time)

'95. 11. 10

seeding day

'95. 6. 12

Fig. 10

"Jizuka" plant
type
(maturing time)

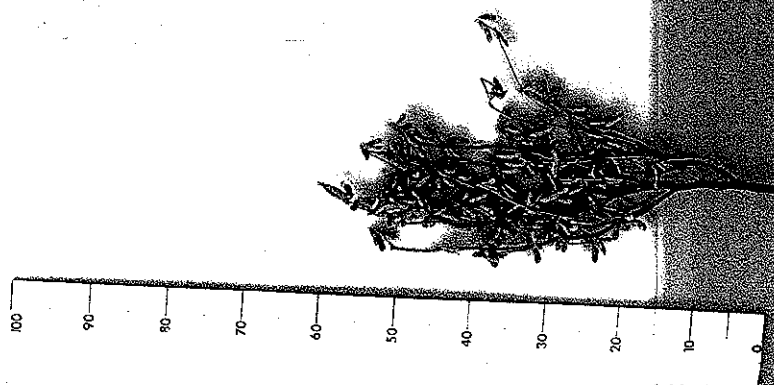


Fig. 11

"Natto syoryu"
plant type
(maturing time)

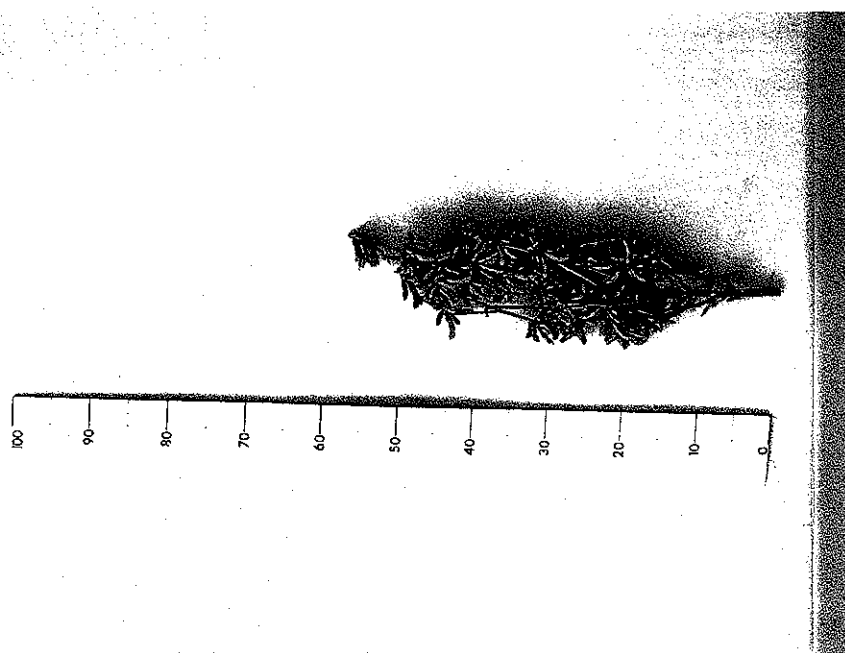


Fig. 12

"kosuzu" plant
type
(maturing time)

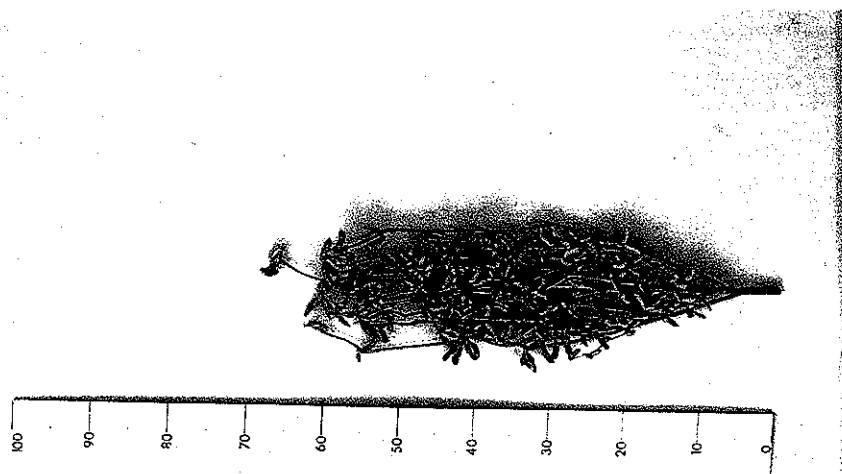


EXHIBIT B



Fig. 13 Plant type. (maturing time. From left to right KOSUZU, SUZUNISHIKI (B3), and NATTO SYORYU.)

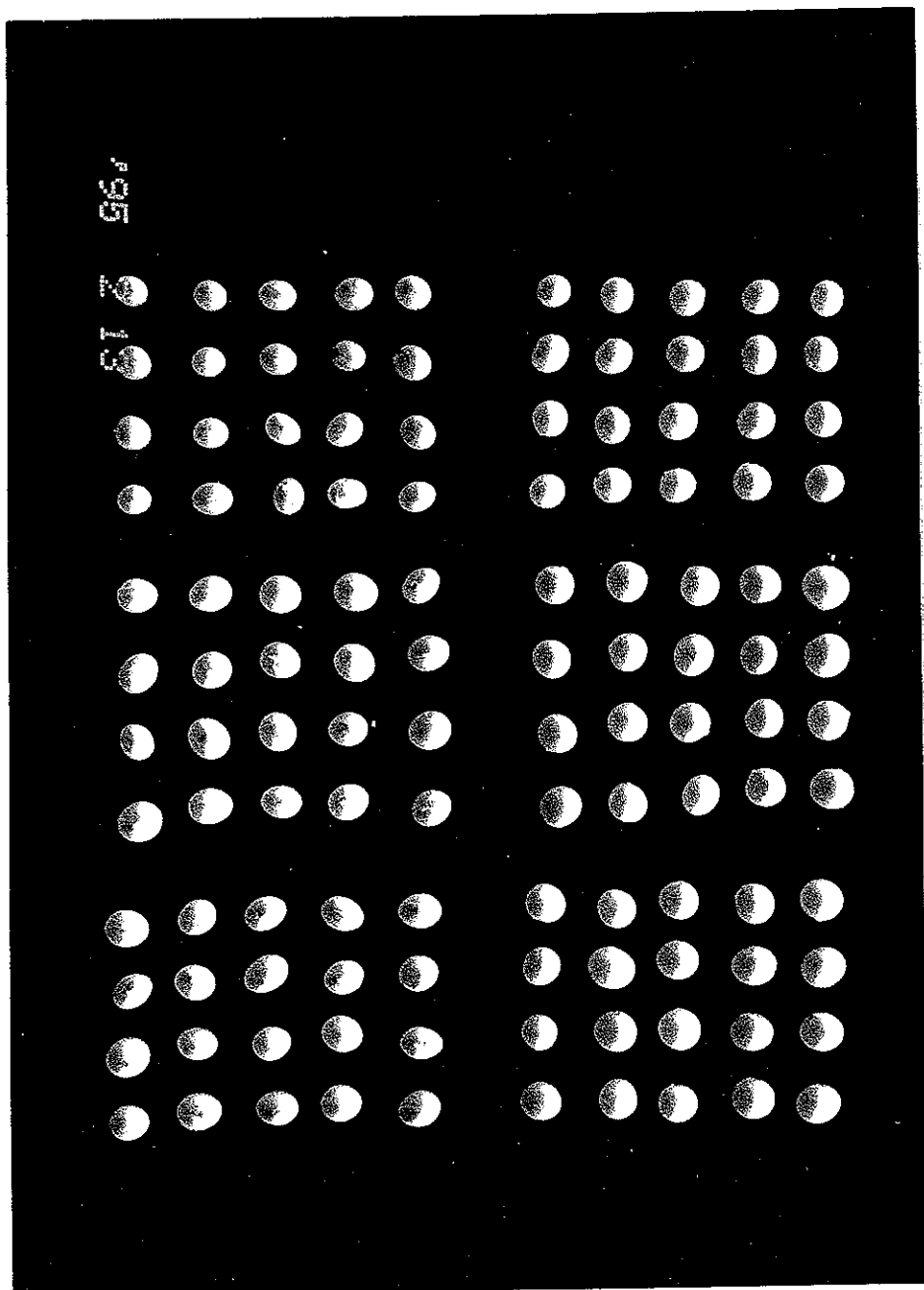


Fig. 14 Seed shape. (from left to right SUZUNISHIKI (B3), KOSUZU and
NAITO SYORYU.)

No. _____



NATTO-
SYORYU



SUZUNISHIKI

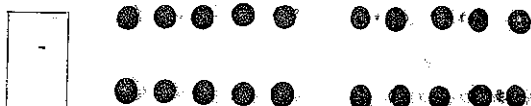
2.5Y
8/4

EXHIBIT D Seed coat and hilum color

No. _____



NATTO-
SYORYU



SUZUNISHIKI

2.5Y
8/4

EXHIBIT D Seed coat and hilum color

No. _____



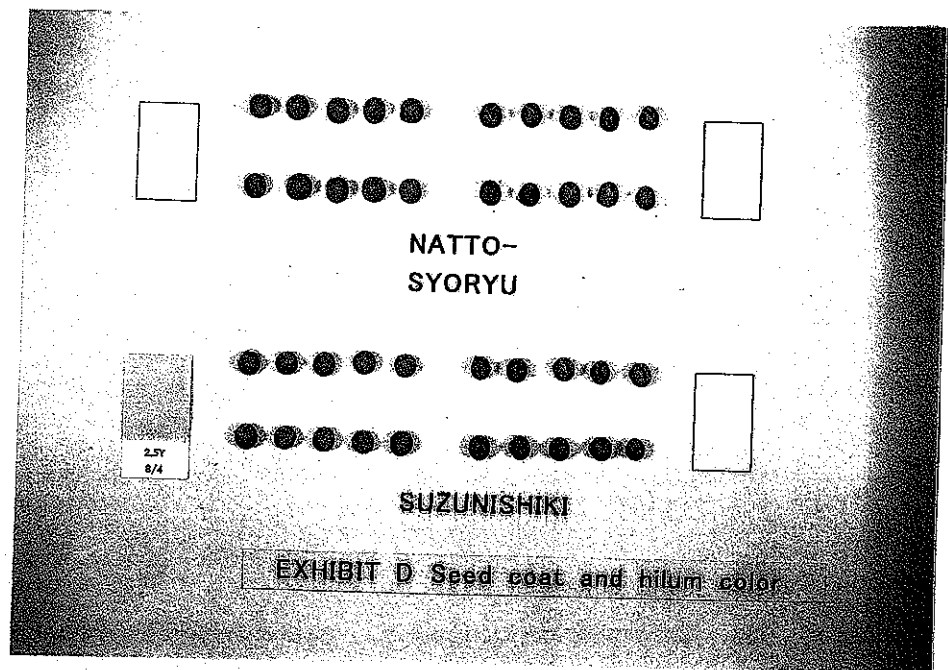
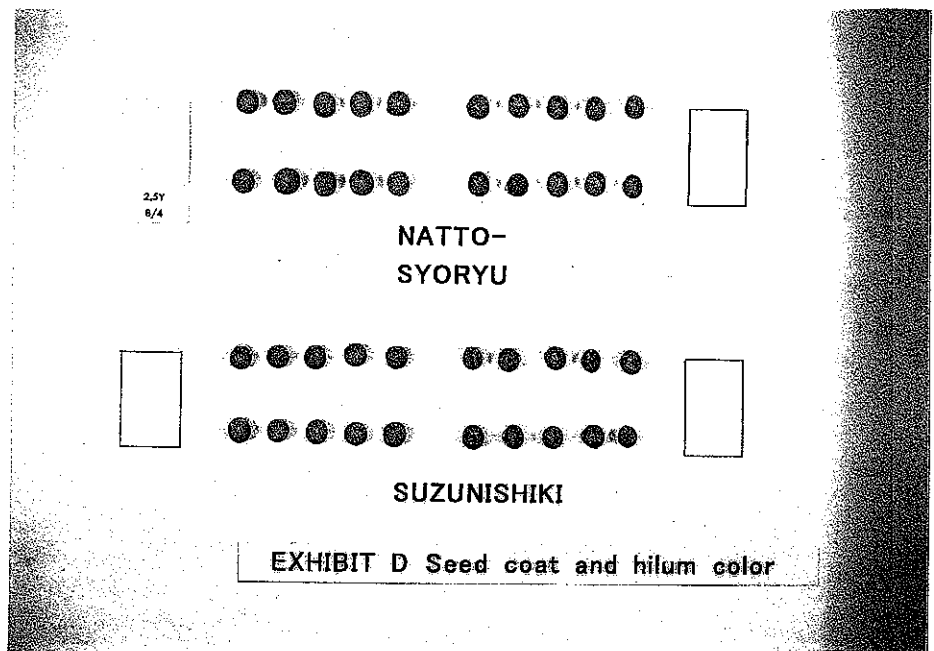
NATTO-
SYORYU



SUZUNISHIKI

2.5Y
8/4

EXHIBIT D Seed coat and hilum color



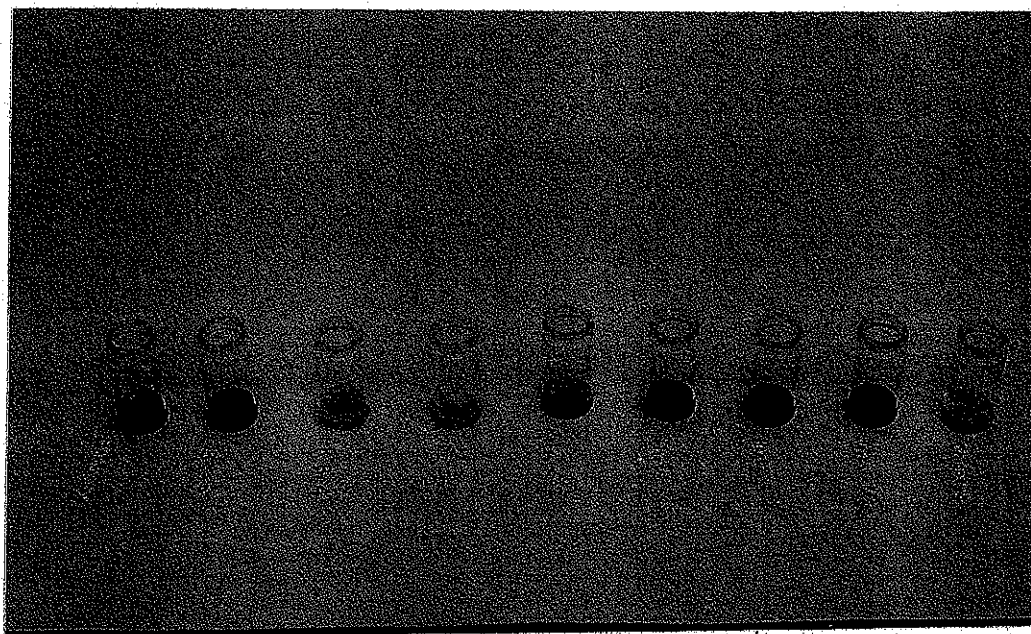


Fig.16 A drop of 0.1% hydrogen peroxide was added and color was recorded after 20 sec. (from left to right Harosoy, Suzunishiki (B3), KB4, Akibiyori (KB5), Harts507, Harts605, Harts608, Harts922 and Chippewa.) We used seeds 3 months old.

Seed protein peroxidase activity.

Methods of seed protein peroxidase activity referred to report of
B. R. Buttery and R. I. Buzzell. (Crop Science 8:722-726, 1968)

B. R. Buttery and R. I. Buzzell. 1968. Peroxidase activity in seeds of
soybean varieties. Crop Science 8:722-
726.

EXPERIMENTAL PROCEDURE

A spot test for peroxidase activity was developed in which the seed coat of individual seeds was soaked in 10 drops of 0.5% guaiacol solution for 10 min, a drop of 0.1% hydrogen peroxide was added, and the presence or absence of color was recorded after 20 to 40 sec. The high activity varieties produced an intense reddish-brown color, while during the same time interval, the low activity types showed virtually no color reaction. For every variety listed, at least five seeds were tested. In a few cases a larger number were examined. Since peroxidase activity in the seed coat of single seeds decreases with age (unpublished results), we used seeds which were from 3 to 15 months old.

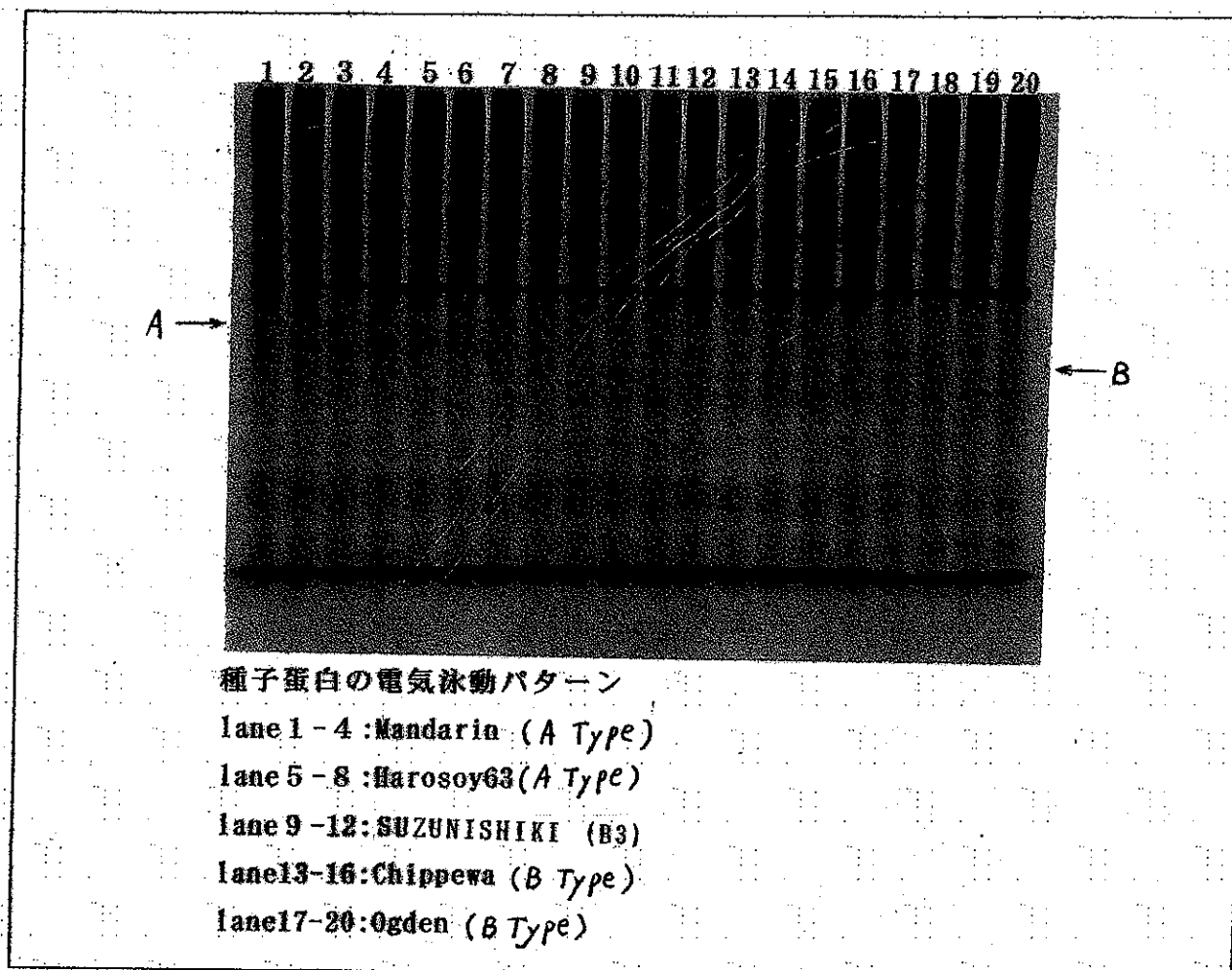


Fig./7 Banding patterns of seed protein from 5 soybean varieties.

20

Seed protein electrophoretic band.

Methods of Seed protein electrophoretic band referred to report of Arnold L. Larsen. (Crop Science 7:311-313, 1967)

Arnold, L. Larsen. 1967. Electrophoretic difference in seed protein among varieties of soybean, *Glycine max* (L.) Merrill.
Crop Science 7:311-313

MATERIALS AND METHODS

Seed samples of 64 soybean varieties representing diverse locations and several years, were collected from the entire soybean-production area of the United States and Canada.

A 5-g seed sample of each variety was ground finely in a small grinder-mixer and then mixed with 20 ml of 0.1 N acetate buffer¹ (pH 4.8). After an overnight extraction at 4 C, the gruel was centrifuged at 30,000 \times g and 0 C for 30 minutes, the pellet discarded and the supernatant adjusted to pH 8.0 with 0.1 N KOH. The solution was refrigerated for 1 hour and then centrifuged at 15,000 \times g and 0 C for 15 minutes. The final supernatant was a light-yellow, clear solution containing approximately 10 to 13 mg protein per ml.

¹ The extractant was an equal mixture of 0.1 N sodium acetate and 0.1 N acetic acid.



9600189

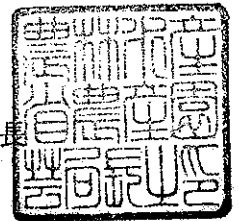
8農産第1198号

平成8年2月29日

カネコ種苗株式会社

代表取締役社長 金子才十郎 殿

農林水産省農産園芸局長



出願品種の証明について

平成8年2月26日付け文書をもって申請のあったこのことについて、別添のとおり出願証明書（英文）を送付する。

Ministry of Agriculture, Forestry and Fisheries
Japanese Government

February 29, 1996

To whom it may concern;

I hereby certify that the attached is a true copy of the application for plant variety protection which the Japanese authority has received concerning the Soybean variety "Suzunishiki". Some relevant items in that application are reproduced below;

- 1) name and address of applicant : Kaneko Seeds Co., Ltd.
50-2, Furuichimachi 1-chome, Maebashi-shi
Gunma, JAPAN
- 2) species to which the plant variety belongs : Glycine max (L.) Merrill
- 3) proposed denomination : Suzunishiki
- 4) date of application : February 20, 1995
- 5) applications outside Japan preceding the date of this application : None
- 6) application number : 7597

S. Kuromoto

Shigemasa Kuromoto
Director
Seeds and Seedlings Division
Agricultural Production Bureau
Ministry of Agriculture, Forestry and Fisheries
1-2-1 Kasumigaseki, Chiyoda-ku
Tokyo, JAPAN



U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) KANeko SEEDS CO., LTD.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER B3	3. VARIETY NAME SUZUNISHIKI
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 50-12, Furuichi-machi 1-chome Maebashi City, Gunma Pref. 3718503 Japan	5. TELEPHONE (include area code) 81-(27)-251-1611	6. FAX (include area code) 81-(27)-290-1086
7. PVPO NUMBER		
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country Japan	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
10. Is the applicant the original owner? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no, please answer one of the following:	
a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)? <input type="checkbox"/> YES <input type="checkbox"/> NO If no, give name of country	
b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company? <input type="checkbox"/> YES <input type="checkbox"/> NO If no, give name of country	

11. Additional explanation on ownership (if needed, use reverse for extra space):

This variety was registered by KANEKO SEEDS CO., LTD. in Japan under the Seeds and Seedlings Law dated December 5, 1997.

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

STD-470-E (07-97) (Destroy previous editions).

Electronic version designed using WordPerfect InForms by USDA-AMS-IMB.

11. Additional explanation on ownership (CONTINUED FROM FRONT)

This variety have been bred by KANEKO SEEDS's breeder on his duties.

KANEKO's employee including breeder agree that all the rights for the varieties bred on his duty and the rights comes from its registration must belong to KANEKO SEEDS CO., LTD..

Therefore, rights of application and ownership will be hold the KANEKO SEEDS CO., LTD..